

cavity openings in the first green tape stack to provide walls and coupling apertures in the green tape stack, a conductive layer over said first green tape stack, and a second green tape stack mounted on said conductive layer.

10. An embedded coupled shaped dielectric waveguide resonator according to claim 9 wherein said metal support plate is of copper clad molybdenum.--

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6. (Amended). An embedded coupled waveguide resonator according to claim 9 wherein the shaped waveguide is rectangular.

7. (Amended) An embedded dielectric waveguide according to claim 9 wherein E-plane probes are inserted through openings in said second of the two green tape stacks and connected to microstrip transmission lines on the surface of said second green tape stack.

8. (Amended) An embedded dielectric waveguide according to claim 9 which is able to be tuned to varying operating frequencies by preselecting green tapes having varying dielectric constant into the structure.

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9 (New) An embedded coupled shaped dielectric waveguide resonator comprising a metal support subibstrate,

a first green tape stack adhered to the support substrate, cavity openings in the first green tape stack to provide walls and coupling apertures in the green tape stack;

a conductive layer over said first green tape stack, and

a second green tape stack mounted on said conductive layer.

10. (New) an embedded coupled shaped dielectric waveguide resonator according to claim 9 wherein said metal support plate

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is of copper ~~and~~ molybdenum.
